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PS-124/64
23 April 1964

MEMORANDUM FOR: Assistant for Administration

TO: Chief, Logistics Branch

FROM: Chief, CIA/PID (NPIC)

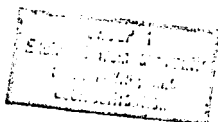
SUBJECT: Justification for Purchase of [] 405B Comparator 25X1A
and [] Plotter 25X1A

REFERENCES: (a) Trip Report [] PS-120/64 25X1A
(b) PIDS Staff Study - Procurement of a High Quality
Chip Comparator dated 15 April 1963

1. PID has been awaiting the advent of the long-promised "on-line" measurement capability since the move into [] Programs have been 25X1A prepared for the Univac 490 for certain camera systems and other programs are underway. Preliminary steps have been taken jointly by PID and TID personnel to test out the on-line concept. These first steps, using a [] Microscope 25X1A and a teletype unit have been met with great enthusiasm by the analysts and are limited presently by the accuracy of the measuring instrument used and the time-consuming method of feeding data into the computer via the Teletype.

2. Two basic types of measuring devices will eventually be used operationally by the PID analysts. These are the rear-screen projectors and microscope comparators. The prototypes of the rear screen devices are still in the production stage and will not be available for some time. The 25X1A prototype of the [] Stereo Chip Comparator 405B is nearly complete and ready for delivery. This device was inspected at the manufacturers 25X1A facility by [] of the PID Production Staff in company with [] of PID on 10 April 1964 (Ref.(a)). The comparator incorporates the highest 25X1A quality viewing optics available — the [] Tandem Dynazoom, the [] Interferometric Measuring System and the Computer Measurements company readout and communications console. This equipment will provide the analyst with a high quality chip comparator capable of operating on-line with the computer and requiring a minimum of knowledge and training for the operator with respect to the actual measuring process. The instrument will be of sufficient accuracy to handle all but the most specialized measurement problems.

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3. An additional component of both the rear-screen and comparator measuring systems is an on-line plotter output. This will allow the analyst to prepare at his work station a rectified plot for inclusion in reports or as a base for the target complex which he is measuring with the comparator or rear-screen projector. The [] Digital Incremental Plotter has been recommended by [] (Ref.(b)) for this purpose. One of these instruments has been procured for TID and has been evaluated by PID personnel. 25X1A 25X1A

4. Form 90's for the purchase of the [] 405B Comparator, the [] Plotter, and the [] Tandem Dynazoom microscope head are being submitted. Purchase of all of the above equipment has been coordinated with [] of the Plans and Development Staff to insure compatibility with other building equipment and system. 25X1A 25X1A

[] 25X1A

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25X1A

Ref: 405B-OD-100

14 April 1964

P.O. Box 9642
Rosslyn Station
Arlington, Virginia 22209

25X1A

Subject: Stereo Chip Comparator 405-B

Gentlemen:

Enclosed are estimates for Stereo Chip Comparators in quantities of one, two and five for concurrent manufacturing.

This estimate is based upon furnishing identical units to the Comparator under development and includes two (2) Interferometers, with power supplies and precision microscope focussing mount, per unit. Read-out equipment and a microscope are not included.

25X1A

<u>Quantity</u>	<u>Cost</u>	<u>Delivery</u>
One		210 days
Two		210 days 1st unit, follow on unit 45 days later.
Five		210 days, follow on units at 45 day intervals.

Installation time is estimated at the following budgetary prices.

25X1A

<u>Quantity</u>	<u>Cost</u>	
One		
Two		at intervals of 45 days (2)
Five		at intervals of 45 days (3)

Installation time should be contracted on an as-required basis, since location and environment of installation is not yet known.

If you need additional information, please call me.

Very truly yours,

25X1A

President

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